#### SEQUENCE LISTING

	(1) GENERAL INFORMATION:
5	(i) APPLICANT: BAYLOR COLLEGE OF MEDICINE SMITH, JAMES R.
1.0	(ii) TITLE OF INVENTION: SENESCENT CELL DERIVED INHIBITORS OF DNA SYNTHESIS
10	(iii) NUMBER OF SEQUENCES: 36
15	<ul> <li>(iv) CORRESPONDENCE ADDRESS:</li> <li>(A) ADDRESSEE: HOWREY &amp; SIMON</li> <li>(B) STREET: 1299 PENNSYLVANIA AVENUE, N.W.</li> <li>(C) CITY: WASHINGTON</li> <li>(D) STATE: D.C.</li> <li>(E) COUNTRY: USA</li> <li>(F) ZIP: 20004</li> </ul>
20	(v) COMPUTER READABLE FORM:
25	<ul> <li>(A) MEDIUM TYPE: Floppy disk</li> <li>(B) COMPUTER: IBM PC compatible</li> <li>(C) OPERATING SYSTEM: PC-DOS/MS-DOS</li> <li>(D) SOFTWARE: Patentin Release #1.0, Version #1.25</li> </ul>
30	<ul><li>(vi) CURRENT APPLICATION DATA:</li><li>(A) APPLICATION NUMBER: US</li><li>(B) FILING DATE:</li><li>(C) CLASSIFICATION:</li></ul>
<u>.</u>	(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 07/808,523 (B) FILING DATE: 16-DEC-1991
35	(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 07/970,462 (B) FILING DATE: 02-NOV-1992
40	(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/113,372

(B) FILING DATE: 30-AUG-1993

	<ul><li>(vii) PRIOR APPLICATION DATA:</li><li>(A) APPLICATION NUMBER: US 08/153,564</li><li>(B) FILING DATE: 17-NOV-1993</li></ul>
5	(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/203,535 (B) FILING DATE: 25-FEB-1994
10	(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/229,420 (B) FILING DATE: 15-APR-1994
15	(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/274,535 (B) FILING DATE: 13-JUL-1994
20	(vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: PCT US94/09700  (B) FILING DATE: 26-AUG-1994
20	<ul><li>(viii) ATTORNEY/AGENT INFORMATION:</li><li>(A) NAME: AUERBACH, JEFFREY I.</li><li>(B) REGISTRATION NUMBER: 32,680</li><li>(C) REFERENCE/DOCKET NUMBER: 225-102-CIP9</li></ul>
25	(ix) TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (202) 383-7451 (B) TELEFAX: (202) 383-6610
30	(2) INFORMATION FOR SEQ ID NO:1:
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 2106 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
40	(ii) MOLECULE TYPE: cDNA
→ ∪	(iii) HYPOTHETICAL: NO
	(iv) ANTI-SENSE: NO

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#### (vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(G) CELL TYPE: SENESCENT HUMAN CELLS

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#### (vii) IMMEDIATE SOURCE:

(A) LIBRARY: SENESCENT CELL DERIVED CDNA LIBRARY

(B) CLONE: SDI-1

#### 10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

	CCTGCCGAAG	TCAGTTCCTT	GTGGAGCCGG	AGCTGGGCGC	GGATTCGCCG	AGGCACCGAG	60
15	GCACTCAGAG	GAGGCGCCAT	GTCAGAACCG	GCTGGGGATG	TCCGTCAGAA	CCCATGCGGC	120
13	AGCAAGGCCT	GCCGCCGCCT	CTTCGGCCCA	GTGGACAGCG	AGCAGCTGAG	CCGCGACTGT	180
	GATGCGCTAA	TGGCGGGCTG	CATCCAGGAG	GCCCGTGAGC	GATGGAACTT	CGACTTTGTC	240
20	ACCGAGACAC	CACTGGAGGG	TGACTTCGCC	TGGGAGCGTG	TGCGGGGCCT	TGGCCTGCCC	300
	AAGCTCTACC	TTCCCACGGG	GCCCCGGCGA	GGCCGGGATG	AGTTGGGAGG	AGGCAGGCGG	360
0.5	CCTGGCACCT	CACCTGCTCT	GCTGCAGGGG	ACAGCAGAGG	AAGACCATGT	GGACCTGTCA	420
25	CTGTCTTGTA	CCCTTGTGCC	TCGCTCAGGG	GAGCAGGCTG	AAGGGTCCCC	AGGTGGACCT	480
	GGAGACTCTC	AGGGTCGAAA	ACGGCGGCAG	ACCAGCATGA	CAGATTTCTA	CCACTCCAAA	540
30	CGCCGGCTGA	TCTTCTCCAA	GAGGAAGCCC	TAATCCGCCC	ACAGGAAGCC	TGCAGTCCTG	600
	GAAGCGCGAG	GGCCTCAAAG	GCCCGCTCTA	CATCTTCTGC	CTTAGTCTCA	GTTTGTGTGT	660
0.5	СТТААТТАТТ	ATTTGTGTTT	TAATTTAAAC	ACCTCCTCAT	GTACATACCC	TGGCCGCCCC	720
35	CTGCCCCCCA	GCCTCTGGCA	TTAGAATTAT	TTAAACAAAA	ACTAGGCGGT	TGAATGAGAG	780
	GTTCCTAAGA	GTGCTGGGCA	TTTTTATTTT	ATGAAATACT	ATTTAAAGCC	TCCTCATCCC	840
40	GTGTTCTCCT	TTTCCTCTCT	CCCGGAGGTT	GGGTGGGCCG	GCTTCATGCC	AGCTACTTCC	900
	TCCTCCCCAC	TTGTCCGCTG	GGTGGTACCC	TCTGGAGGGG	TGTGGCTCCT	TCCCATCGCT	960
	GTCACAGGCG	GTTATGAAAT	TCACCCCCTT	TCCTGGACAC	TCAGACCTGA	ATTCTTTTTC	1020
45	ATTTGAGAAG	TAAACAGATG	GCACTTTGAA	GGGGCCTCAC	CGAGTGGGGG	CATCATCAAA	1080
	AACTTTGGAG	TCCCCTCACC	TCCTCTAAGG	TTGGGCAGGG	TGACCCTGAA	GTGAGCACAG	1140
50	CCTAGGGCTG	AGCTGGGGAC	CTGGTACCCT	CCTGGCTCTT	GATACCCCC	TCTGTCTTGT	1200
			GTCCTGGAGC				1260
			GTCTCAGTGT				1320
55			ACCOTTOTTO				1380
			TTTCCCTTCA				1440
			ccn			SSCICIONOG	1440

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	TGCCTGTCCC ACCCCCACCC CCAGCTCAAT GGACTGGAAG GGGAAGGGAC ACACAAGAAG	1500											
	AAGGGCACCC TAGTTCTACC TCAGGCAGCT CAAGCAGCGA CCGCCCCCTC CTCTAGCTGT	1560											
5	GGGGGTGAGG GTCCCATGTG GTGGCACAGG CCCCCTTGAG TGGGGTTATC TCTGTGTTAG	1620											
	GGGTATATGA TGGGGGAGTA GATCTTTCTA GGAGGGAGAC ACTGGCCCCT CAAATCGTCC	1680											
10	AGCGACCTTC CTCATCCACC CCATCCCTCC CCAGTTCATT GCACTTTGAT TAGCAGCGGA	1740											
. 0	ACAAGGAGTC AGACATTTTA AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGCCACGT	1800											
	GGGCTCATAT GGGGCTGGGA GTAGTTGTCT TTCCTGGCAC TAACGTTGAG CCCCTGGAGG	1360											
15	CACTGAAGTG CTTAGTGTAC TTGGAGTATT GGGGTCTGAC CCCAAACACC TTCCAGCTCC	1920											
	TGTAACATAC TGGCCTGGAC TGTTTTCTCT CGGCTCCCCA TGTGTCCTGG TTCCCGTTTC	1980											
20	TCCACCTAGA CTGTAAACCT CTCGAGGGCA GGGACCACAC CCTGTACTGT TCTGTGTCTT	2040											
-	TCACAGCTCC TCCCACAATG CTGATATACA GCAGGTGCTC AATAAACGAT TCTTAGTGAA	2100											
	AAAAAA	2106											
25	(2) INFORMATION FOR SEQ ID NO:2:												
	(I) 0-01-11-10-11-11-11-11-11-11-11-11-11-11												
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 164 amino acids												
	(B) TYPE: amino acid												
30	(D) TOPOLOGY: linear												
	(ii) MOLECULE TYPE: protein												
	(iii) HYPOTHETICAL: NO												
35	(III) THE OTHERIOAL. NO												
	(iv) ANTI-SENSE: NO												
	(vi) ORIGINAL SOURCE:												
4.0	(A) ORGANISM: HOMO SAPIENS												
40	(B) STRAIN: SDI-1												
	(vii) IMMEDIATE SOURCE:												
	(A) LIBRARY: Senescent cell derived cDNA library	,											
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:												
	Met Ser Glu Pro Ala Gly Asp Val Arg Gln Asn Pro Cys Gly 1 5 10	Ser Lys											
50	Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln Leu	ı Ser Arg											
	20 25 30	-											

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	Asp	Cys	Asp 35	Ala	Leu	Met	Ala	Gly 40	Cys	Ile	Gln	Glu	Ala 45	Arg	Glu	Arg
5	Trp	Asn 50	Phe	Asp	Phe	Val	Thr 55	Glu	Thr	Pro	Leu	Glu 60	Gly	Asp	Phe	Ala
	Trp 65	Glu	Arg	Val	Arg	Gly 70	Leu	Gly	Leu	Pro	Lys 75	Leu	Тут	Leu	Pro	Thr 80
10	Gly	Pro	Arg	Arg	Gly 85	Arg	Asp	Glu	Leu	Gly 90	Gly	Gly	Arg	Arg	Pro 95	Gly
15	Thr	Ser	Pro	Ala 100	Leu	Leu	Gln	Gly	Thr 105	Ala	Glu	Glu	Ąsp	His 110	Val	Asp
	Leu	Ser	Leu 115	Ser	Cys	Thr	Leu	Val 120	Pro	Arg	Ser	Gly	Glu 125	Gln	Ala	Glu
20	Gly	Ser 130	Pro	Gly	Gly	Pro	Gly 135	qsA	Ser	Gln	Gly	Arg 140	Lys	Arg	Arg	Gln
	Thr 145	Ser	Met	Thr	Asp	Phe 150	Tyr	His	Ser	Lys	Arg 155	Arg	Leu	Ile	Phe	Ser 160
25	Lys	Arg	Lys	Pro												
	(2) INF	ORM	IATIO	ON F	OR	SEQ	ID N	10:3								
30	(	(A) (B) (C) S	LEN TYF STRA	CE C GTH PE: n ANDI OLO	l: 19 lucle EDN	bas ic ac ESS	e pa cid : sin	irs	S:							
35	(ii) M	OLE	CUL	ET.	YPE:	cD1	1A									
	(iii) H	YPC	)THE	ETIC	AL:	NO										
40	(iv) A	ANTI	-SE	NSE	: YE	S										
	(vi) C			L SC NISI			) SA	PIEN	NS							
45	(xi) S	EQU	ENC	E D	ESC	RIPT	TON	: SE	Q ID	NO:	3:					
	AGCCGGTTC									•					19	

50 (2) INFORMATION FOR SEQ ID NO:4:

5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 12 amino acids</li><li>(B) TYPE: amino acid</li><li>(D) TOPOLOGY: linear</li></ul>
	(ii) MOLECULE TYPE: peptide
4.0	(iii) HYPOTHETICAL: NO
10	(v) FRAGMENT TYPE: N-terminal
15	(vii) IMMEDIATE SOURCE: (B) CLONE: [His]6 leader peptide
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
	Met Arg Gly Ser His His His His His Gly Ala 1 5 10
25	(2) INFORMATION FOR SEQ ID NO:5:
-0	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 699 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>
30	(D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: cDNA
35	(iii) HYPOTHETICAL: NO
	(iv) ANTI-SENSE: NO
40	<ul><li>(vi) ORIGINAL SOURCE:</li><li>(A) ORGANISM: Schistosoma japonicum</li></ul>
<del>7</del> ∪	(vii) IMMEDIATE SOURCE:  (B) CLONE: GST

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### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

5	ATGTCCCCTA TACTAGGTTA TTGGAAAATT AAGGGCCTTG TGCAACCCAC TCGACTTCTT	60
J	TTGGAATATC TTGAAGAAAA ATATGAAGAG CATTTGTATG AGCGCGATGA AGGTGATAAA	120
	TGGCGAAACA AAAAGTTTGA ATTGGGTTTG GAGTTTCCCA ATCTTCCTTA TTATATTGAT	180
10	GGTGATGTTA AATTAACACA GTCTATGGCC ATCATACGTT ATATAGCTGA CAAGCACAAC	240
	ATGTTGGGTG GTTGTCCAAA AGAGCGTGCA GAGATTTCAA TGCTTGAAGG AGCGGTTTTG	300
15	GATATTAGAT ACGGTGTTTC GAGAATTGCA TATAGTAAAG ACTTTGAAAC TCTCAAAGTT	360
	GATTTTCTTA GCAAGCTACC TGAAATGCTG AAAATGTTCG AAGATCGTTT ATGTCATAAA	420
	ACATATTTAA ATGGTGATCA TGTAACCCAT CCTGACTTCA TGTTGTATGA CGCTCTTGAT	480
20	GTTGTTTTAT ACATGGACCC AATGTGCCTG GATGCGTTCC CAAAATTAGT TTGTTTTAAA	540
	AAACGTATTG AAGCTATCCC ACAAATTGAT AAGTACTTGA AATCCAGCAA GTATATAGCA	500
25	TGGCCTTTGC AGGGCTGGCA AGCCACGTTT GGTGGTGGCG ACCATCCTCC AAAATCGGAT	660
	CTGGTTCCGC GTGGATCCCC GGGAATTCAT CGTGACTGA	699
	(2) INFORMATION FOR SEQ ID NO:6:	
30	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 232 amino acids</li><li>(B) TYPE: amino acid</li><li>(D) TOPOLOGY: linear</li></ul>	
35	(ii) MOLECULE TYPE: protein	
	(iii) HYPOTHETICAL: NO	
40	(vi) ORIGINAL SOURCE: (A) ORGANISM: Schistosoma japonicum	
	(vii) IMMEDIATE SOURCE: (B) CLONE: GST	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	

Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro

Thr Arg Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu

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	Tyr	Glu	Arg 35	Asp	Glu	Gly	Asp	Lys 40	Trp	Arg	Asn	Lys	Lys 45	Phe	Glu	Leu
5	Gly	Leu 50	Glu	Phe	Pro	Asn	Leu 55	Pro	Tyr	Tyr	Ile	Asp 60	Gly	Asp	Val	Lys
	Leu 65	Thr	Gln	Ser	Met	Ala 70	Ile	Ile	Arg	Tyr	Ile 75	Ala	Asp	Lys	His	Asn 80
10	Met	Leu	Gly	Gly	Cys 85	Pro	Lys	Glu	Arg	Ala 90	Glu	Ile	Ser	Met	Leu 95	Glu
15	Gly	Ala	Val	Leu 100	Asp	Ile	Arg	Tyr	Gly 105	Val	Ser	Arg	Ile	Ala 110	Tyr	Ser
, 0	Lys	Asp	Phe 115	Glu	Thr	Leu	Lys	Val 120	Asp	Phe	Leu	Ser	Lys 125	Leu	Pro	Glu
20	Met	Leu 130	Lys	Met	Phe	Glu	Asp 135	Arg	Leu	Cys	His	Lys 140	Thr	Tyr	Leu	Asn
	Gly 145	qsA	His	Val	Thr	His 150	Pro	qsA	Phe	Met	Leu 155	Tyr	Asp	Ala	Leu	Asp 160
25	Val	Val	Leu	Tyr	Met 165	Asp	Pro	Met	Cys	Leu 170	Asp	Ala	Phe	Pro	Lys 175	Leu
30	Val	Cys	Phe	Lys 180	Lys	Arg	Ile	Glu	Ala 185	Ile	Pro	Gln	Ile	Asp 190	Lys	Tyr
	Leu	Lys	Ser 195	Ser	Lys	Tyr	Ile	Ala 200	Trp	Pro	Leu	Gln	Gly 205	Trp	Gln	Ala
35	Thr	Phe 210	Gly	Gly	Gly	Asp	His 215	Pro	Pro	Lys	Ser	Asp 220	Leu	Val	Pro	Arg
	Gly 225	Ser	Pro	Gly	Ile	His 230	Arg	Asp								
40	(2) INF	ORM	IATIO	ON F	OR :	SEQ	ID N	10:7:	:							
	(i) S	EQU	ENC	E C	HAR	ACT	ERI	STIC	S:							

(A) LENGTH: 13 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

	(VII) IMMEDIATE SOURCE:  (B) CLONE: linker fragment for GST-SDI-1 gene	fusion
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
	GGATCCCCCC GCC	13
10	(2) INFORMATION FOR SEQ ID NO:8:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single	
15	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
20	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
25	<ul><li>(vii) IMMEDIATE SOURCE:</li><li>(B) CLONE: linker fragment for GST-SDI-1 gene</li></ul>	fusion
23	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
	CCCTCGAGGG	10
30	(2) INFORMATION FOR SEQ ID NO:9:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 7 amino acids</li><li>(B) TYPE: amino acid</li><li>(D) TOPOLOGY: linear</li></ul>	
	(ii) MOLECULE TYPE: peptide	
	(iii) HYPOTHETICAL: NO	
40	(v) FRAGMENT TYPE: internal	

(B) CLONE: hinge region of GST-SDI-1 fusion protein

(vii) IMMEDIATE SOURCE:

-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:												
5	Pro Arg Gly Asp Pro Pro Ala 1 5												
	(2) INFORMATION FOR SEQ ID NO:10:												
10	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 1194 base pairs  (B) TYPE: nucleic acid												
15	(C) STRANDEDNESS: single (D) TOPOLOGY: linear												
	(ii) MOLECULE TYPE: cDNA												
20	(iii) HYPOTHETICAL: NO												
	(iv) ANTI-SENSE: NO	(iv) ANTI-SENSE: NO											
25	(vii) IMMEDIATE SOURCE: (B) CLONE: GST-SDI-1 gene fusion												
23	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:												
	ATGTCCCCTA TACTAGGTTA TTGGAAAATT AAGGGCCTTG TGCAACCCAC TCGACTTCTT	60											
30	TTGGAATATC TTGAAGAAAA ATATGAAGAG CATTTGTATG AGCGCGATGA AGGTGATAAA	120											
	TGGCGAAACA AAAAGTTTGA ATTGGGTTTG GAGTTTCCCA ATCTTCCTTA TTATATTGAT	180											
35	GGTGATGTTA AATTAACACA GTCTATGGCC ATCATACGTT ATATAGCTGA CAAGCACAAC	240											
	ATGTTGGGTG GTTGTCCAAA AGAGCGTGCA GAGATTTCAA TGCTTGAAGG AGCGGTTTTG	300											
40	GATATTAGAT ACGGTGTTTC GAGAATTGCA TATAGTAAAG ACTTTGAAAC TCTCAAAGTT	360											
70	GATTITCTTA GCAAGCTACC TGAAATGCTG AAAATGTTCG AAGATCGTTT ATGTCATAAA												
	ACATATTTAA ATGGTGATCA TGTAACCCAT CCTGACTTCA TGTTGTATGA CGCTCTTGAT GTTGTTTTAT ACATGGACCC AATGTGCCTG GATGCGTTCC CAAAATTAGT TTGTTTTAAA												
45	AAACGTATTG AAGCTATCCC ACAAATTGAT AAGTACTTGA AATCCAGCAA GTATATAGCA	5 <b>4</b> 0 600											
	TGGCCTTTGC AGGGCTGGCA AGCCACGTTT GGTGGTGGCG ACCATCCTCC AAAATCGGAT												
50	CTGGTTCCGC GTGGATCCCC TCGAGGGGAT CCCCCCGCCA TGTCAGAACC GGCTGGGGAT	720											
	GTCCGTCAGA ACCCATGCGG CAGCAAGGCC TGCCGCCGCC TCTTCGGCCC AGTGGACAGC	780											

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	SAGCAGCTGA GCCGCGACTG TGATGCGCTA ATGGCGGGCT GCATCCAGGA GGCCCGTGAG 840													
5	GATGGAACT TCGACTTTGT CACCGAGACA CCACTGGAGG GTGACTTCGC CTGGGAGCGT 900													
J	TGCGGGGCC TTGGCCTGCC CAAGCTCTAC CTTCCCACGG GGCCCCGGCG AGGCCGGGAT 960													
	AGTTGGGAG GAGGCAGGCG GCCTGGCACC TCACCTGCTC TGCTGCAGGG GACAGCAGAG 1020													
10	AAGACCATG TGGACCTGTC ACTGTCTTGT ACCCTTGTGC CTCGCTCAGG GGAGCAGGCT 1080													
	AAGGGTCCC CAGGTGGACC TGGAGACTCT CAGGGTCGAA AACGGCGGCA GACCAGCATG 1140													
15	CAGATTTCT ACCACTCCAA ACGCCGGCTG ATCTTCTCCA AGAGGAAGCC CTAA 1194													
13	(2) INFORMATION FOR SEQ ID NO:11:													
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 397 amino acids  (B) TYPE: amino acid  (D) TOPOLOGY: linear													
	(ii) MOLECULE TYPE: protein													
25	(iii) HYPOTHETICAL: NO													
	(vii) IMMEDIATE SOURCE:  (B) CLONE: GST-SDI-1 fusion protein													
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:													
	Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pr 1 5 10 15	rc												
35	Thr Arg Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Le 20 25 30	eu												
40	Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Le	∍u												
40	Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Ly 50 55 60	/ S												
45	Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His As 65 70 75 80													
	Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Gl 85 90 95	Lu												
50	Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Se	er												
	Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Gl 115 120 125	lu												

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	Met	Leu 130	Lys	Met	Phe	Glu	Asp 135	Arg	Leu	Cys	His	Lys 140	Thr	Tyr	Leu	Asn
5	Gly 145	Asp	His	Val	Thr	His 150	Pro	qzA	Phe	Met	Leu 155	Tyr	Asp	Ala	Leu	Asp 160
10	Val	Val	Leu	Tyr	Met 165	Asp	Pro	Met	Cys	Leu 170	Asp	Ala	Phe	Pro	Lys 175	Leu
10	Val	Cys	Phe	Lys 180	Lys	Arg	Ile	Glu	Ala 185	Ile	Pro	Gln	Ile	Asp 190	Lys	Tyr
15	Leu	Lys	Ser 195	Ser	Lys	Tyr	Ile	Ala 200	Trp	Pro	Leu	Gln	Gly 205	Trp	Gln	Ala
	Thr	Phe 210	Gly	Gly	Gly	Asp	His 215	Pro	Pro	Lys	Ser	Asp 220	Leu	Val	Pro	Arg
20	Gly 225	Ser	Pro	Arg	Gly	Asp 230	Pro	Pro	Ala	Met	Ser 235	Glu	Pro	Ala	Gly	Asp 240
25	Val	Arg	Gln	Asn	Pro 245	Cys	Gly	Ser	Lys	Ala 250	Cys	Arg	Arg	Leu	Phe 255	Gly
23	Pro	Val	Asp	Ser 260	Glu	Gln	Leu	Ser	Arg 265	Asp	Cys	Asp	Ala	Leu 270	Met	Ala
30	Gly	Cys	Ile 275	Gln	Glu	Ala	Arg	Glu 280	Arg	Trp	Asn	Phe	Asp 285	Phe	Val	Thr
	Glu	Thr 290	Pro	Leu	Glu	Gly	Asp 295	Phe	Ala	Trp	Glu	Arg 300	Val	Arg	Gly	Leu
35	Gly 305	Leu	Pro	Lys	Leu	Tyr 310	Leu	Pro	Thr	Gly	Pro 315	Arg	Arg	Gly	Arg	Asp 320
40	Glu	Leu	Gly	Gly	Gly 325	Arg	Arg	Pro	Gly	Thr 330	Ser	Pro	Ala	Leu	Leu 335	Gln
, 0	Gly	Thr	Ala	Glu 340	Glu	Asp	His	Val	Asp 345	Leu	Ser	Leu	Ser	Cys 350	Thr	Leu
45	Val	Pro	Arg 355	Ser	Gly	Glu	Gln	Ala 360	Glu	Gly	Ser	Pro	Gly 365	Gly	Pro	Gly
	Asp	Ser 370	Gln	Gly	Arg	Lys	Arg 375	Arg	Gln	Thr	Ser	Met 380	Thr	Asp	Phe	Tyr
50	His 385	Ser	Lys	Arg	Arg	Leu 390	Ile	Phe	Ser	Lys	Arg 395	Lys	Pro			

## (2) INFORMATION FOR SEQ ID NO:12:

# 55 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs

	<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
5	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
10	(iv) ANTI-SENSE: NO	
	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer 12614	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
	GGAGGATCCA TGTCAGAACC GGCT	24
20	(2) INFORMATION FOR SEQ ID NO:13:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 24 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
30	(iv) ANTI-SENSE: NO	
35	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer 12615	
33	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
	GCAGAATTCC TGTGGGCGGA TTAG	24
40	(2) INFORMATION FOR SEQ ID NO:14:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs	

	<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
5	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
10	(iv) ANTI-SENSE: NO	
	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
. =	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
15	TCTAGGCCTG TACGGAAGTG	20
	(2) INFORMATION FOR SEQ ID NO:15:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 60 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
25	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
30	(iv) ANTI-SENSE: NO	
0.5	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
	TAGGAATTCA CTAGTCTAAG CGTAATCTGG AACATCGTAT GGGTAGGGCT TCCTCTTGGA	6(
40	(2) INFORMATION FOR SEQ ID NO:16:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs	

	<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
5	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
4.0	(iv) ANTI-SENSE: NO	
10	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
15	TTCGGCCCTC GAGGCCTGAG CCGCGACTGT	30
	(2) INFORMATION FOR SEQ ID NO:17:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 30 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
25	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
30	(iv) ANTI-SENSE: NO	
	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
	GCTCAGGCCT CGAGGGCCGA AGAAGCGGCG	30
40	(2) INFORMATION FOR SEQ ID NO:18:	
40	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 31 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	

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	<ul><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>		
	(ii) MOLECULE TYPE: cDNA		
5	(iii) HYPOTHETICAL: NO		
	(iv) ANTI-SENSE: NO		
10	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:		
15	TTAGCGCGCC TCGAGGCTGC TCGCTGTCCA C	:	31
	(2) INFORMATION FOR SEQ ID NO:19:		
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 31 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>		
25	(ii) MOLECULE TYPE: cDNA		
	(iii) HYPOTHETICAL: NO		
20	(iv) ANTI-SENSE: NO		
30	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:		
33	CGAGCAGCCT CGAGGCGCGC TAATGGCGGG C	31	
	(2) INFORMATION FOR SEQ ID NO:20:		
40	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 30 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>		

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	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
5	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
10	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
15	GGCTGCCCTC GAGGCCGATG GAACTTCGAC	30
13	(2) INFORMATION FOR SEQ ID NO:21:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 30 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
0.5	(ii) MOLECULE TYPE: cDNA	
25	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
30	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
35	CCATCGGCCT CGAGGGCAGC CCGCCATTAG	30
	(2) INFORMATION FOR SEQ ID NO:22:	
40	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 36 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

	(II) MOLECULE TYPE: cDNA	
_	(iii) HYPOTHETICAL: NO	
5	(iv) ANTI-SENSE: NO	
10	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
	CGTGAGCGAC CCCGGGGCGT CACCGAGACA CCACTG	36
15	(2) INFORMATION FOR SEQ ID NO:23:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 36 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: cDNA	
25	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
30	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
35	CTCGGTGACG CCCCGGGGTC GCTCACGGGC CTCCTG	36
33	(2) INFORMATION FOR SEQ ID NO:24:	
40	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 30 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
5	(iv) ANTI-SENSE: NO	
	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
	TTCGACCCTC GAGGCCTGGA GGGTGACTTC	30
4 =	(2) INFORMATION FOR SEQ ID NO:25:	
15	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 30 base pairs  (B) TYPE: nucleic acid	
20	<ul><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	(ii) MOLECULE TYPE: cDNA	
٥٢	(iii) HYPOTHETICAL: NO	
25	(iv) ANTI-SENSE: NO	
	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
	CTCCAGGCCT CGAGGGTCGA AGTTCCATCG	30
35	(2) INFORMATION FOR SEQ ID NO:26:	
40	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 36 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: cDNA	

	(III) HYPOTHETICAL: NO	
E	(iv) ANTI-SENSE: NO	
5	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
1.0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
10	ACCGAGACAT CCCGGGCCGA CTTCGCCTGG GAGCGT	36
	(2) INFORMATION FOR SEQ ID NO:27:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 36 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
25	(iv) ANTI-SENSE: NO	
	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
	GGCGAAGTCG GCCCGGGATG TCTCGGTGAC AAAGTC	36
35	(2) INFORMATION FOR SEQ ID NO:28:	
40	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 36 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: cDNA	

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	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
5	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
10	CCACTGGAGC CCCGGGGCCG TGTGCGGGGC CTTGGC	36
	(2) INFORMATION FOR SEQ ID NO:29:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 36 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
20	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
25	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
30	CCGCACACGG CCCCGGGGCT CCAGTGGTGT CTCGGT	3 6
	(2) INFORMATION FOR SEQ ID NO:30:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 30 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
40	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	

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	(iv) ANTI-SENSE: NO	
5	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
10	GCCTGGCCTC GAGGCGGCCT GCCCAAGCTC	3 0
10	(2) INFORMATION FOR SEQ ID NO:31:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 30 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
2.2	(ii) MOLECULE TYPE: cDNA	
20	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
25	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
30	CAGGCCGCCT CGAGGCCAGG CGAAGTCACC	30
	(2) INFORMATION FOR SEQ ID NO:32:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 41 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
40	(ii) MOLECULE TYPE: cDNA	
	(iii) HYPOTHETICAL: NO	

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	(IV) ANTI-SENSE: NO	
_	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
	CGGGGCCTTC CCCGGGGCCT TCCCACGGGG CCCCGGCGAG G	41
10	(2) INFORMATION FOR SEQ ID NO:33:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 40 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	(ii) MOLECULE TYPE: cDNA	
20	(iii) HYPOTHETICAL: NO	
	(iv) ANTI-SENSE: NO	
25	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
30	CGTGGGAAGG CCCCGGGAA GGCCCCGCAC ACGCTCCCAG	40
00	(2) INFORMATION FOR SEQ ID NO:34:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 29 amino acids</li><li>(B) TYPE: amino acid</li><li>(D) TOPOLOGY: linear</li></ul>	
	(ii) MOLECULE TYPE: peptide	
40	(iii) HYPOTHETICAL: NO	
	(v) FRAGMENT TYPE: internal	

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	<ul><li>(vii) IMMEDIATE SOURCE:</li><li>(B) CLONE: peptide mimetic fragment</li></ul>
_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:
5	Trp Asn Phe Asp Phe Xaa Xaa Xaa Pro Leu Glu Gly Xaa Xaa Xaa 1 10 15
10	Trp Xaa Xaa Val Xaa Xaa Xaa Leu Pro Xaa Xaa Tyr 20 25
	(2) INFORMATION FOR SEQ ID NO:35:
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 54 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
20	(ii) MOLECULE TYPE: cDNA
	(iii) HYPOTHETICAL: NO
0.5	(iv) ANTI-SENSE: NO
25	(vii) IMMEDIATE SOURCE: (B) CLONE: Primer
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:
30	CAGAATCACA AGCCACTCGA GGGTAAGTAC GAGTGGGAGC GTGTGCGGGG CCTT 54
	(2) INFORMATION FOR SEQ ID NO:36:
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 48 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
40	(ii) MOLECULE TYPE: cDNA
	(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vii) IMMEDIATE SOURCE:

(B) CLONE: Primer

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

CTTACCCTCG AGTGGCTTGT GATTCTGAAA GTCGAAGTTC CATCGCTC

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